

**222-S Project Managers Meeting & Misc. Lab Issues**

**(TSD: TS-2-1)**

2704HV/Room G-229

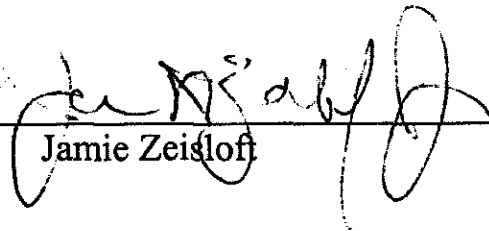
May 23, 2002

9:30 – 10:00 p.m.

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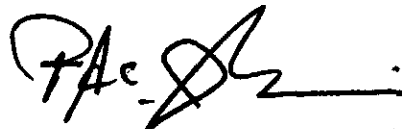
**EDMC**

DOE:

  
Jamie Zeisloft

6/24/02  
Date

ECOLOGY:

  
Fred Jamison

7/25/02  
Date

# MEETING MINUTES

222-S Project Manager's Meeting and Miscellaneous Lab Issues (TSD:TS-2-1)  
5/23/2002

## Meeting Attendees:

Jamie Zeisloft, RL	Dee Lloyd, RL	Wen-Shou Liou, ORP
Harold Stafford, ORP	Tracy Gao, Ecology	Debra Singleton, Ecology
Jay Warwick, FH	Lucinda Borneman, FH	Jeff Westcott, FH
Dawn Wolf, FH	Cary Seidel, FH	Jeannette Hyatt, FH

## Introduction:

Mr. Jamie Zeisloft called the meeting to order at 9:30 a.m.

## Approval of Previous Meeting Minutes:

RL and Ecology approved the April 25, 2002 meeting minutes.

## Status of Action Items:

All Action Items are closed.

Ecology requested a meeting be set up to discuss the ICAT Audit Reports, which were provided Ecology last month to close out an Action Item. RL agreed to an action item to set up the meeting.

Action Item: Set up meeting between Ecology, RL, and FH to discuss the results of the ICAT Audit Report.

Actionee: Jamie Zeisloft, RL

## 222-S Laboratory TSD Issues

### 222-S Receipt of Treatability Study Residues

Mr. Jeff Westcott led the discussion on the topic of 222-S acceptance of Hanford Double Shell/Single Shell Tank vitrification process treatability study residues from the Savannah River Technical Center (SRTC). The attached handout indicates that only the liquid aqueous residues that are shipped in "hedgehog" shipping containers will be accepted at the 222-S Laboratory. The residues will be reviewed and verified to meet the waste acceptance criteria for the 219-S Tank system prior to shipment from SRTC. Upon receipt, the residues will be received at the 222-S Laboratory Hot Cells, verified for identity, and then declared waste, at which time the material will be transferred to the 219-S Tank System via the Hot Cells. The 219-S Tank System transfers waste to the Double Shell Tank System.

Mr. Westcott related that about 4 – 5 shipments per year of these residues are expected for 222-S with volumes of residues ranging from about 10 – 30 liters per shipment. Mr. Westcott further related that the first shipment is anticipated in early summer 2002.

Ecology related that the topic of these residues are well discussed within the agency and that the agency has no specific concerns as long as the residues are the result of treatability studies on Hanford DST/SST waste. Ecology requested to be informed (via e-mail) when the first shipment is received and be provided status at the monthly Project Managers' meeting. Ecology suggested that FH keep track of the volumes of these residues that are transferred to the 219-S Tank System.

222-S Laboratory Operations:

Lucinda Borneman, FH presented the 222-S Operations report for May, which is attached.

WSCF Laboratory Operations:

Jay Warwick, FH, presented the WSCF Operations Report for May, which is attached.

Miscellaneous Issues

Next Meeting: June 27, 2002, 9:30 am, 2704 HV.

222-S Project Managers Meeting & Misc. Lab Issues (TSD: TS-2-1)  
5/23/02

Attachment 1  
List of Attendees  
Action Items  
Other Handouts

# 222-S Project Managers Meeting & Misc. Lab Issues

May 22, 2002

9:30 - 10:00 a.m.

## ATTENDEES

Name	Affiliation	MSIN	Phone
Jeff Westcott	FH	T4-05	373-9800
Wen-shan Liou	ORP		373-9876
HAROLD STAFFORD	ORP	<del>376</del> H6-60	376-6597
Dawn Wolf	FH	T6-03	373-0265
Lucinda Boneman	FH		373-2821
Cary Seidel	FH		373-5211
Jay Warwick	PH	S3 30	373-2076
Tracy Caw	Ecology	B5-18	736-5718
Deborah Singleton	Ecology		736-5722
Jeannette Hyatt	FH/WMP	N1-24	376-7923
Janie Zerkow	RL/OES	A2-15	372-0183
Dee W Lloyd	RCA	. " "	372-2299

222-S Project Managers Meeting & Misc. Lab Issues

2704HV/Room G-229

May 23, 2002

9:30 - 10:00 p.m.

Agenda

- I. Introductions
- II. Approval of Previous Meeting Minutes
- III. Status of Action Items
- IV. 222-S TSD Issues
  - SRTC Return
- V. 222-S Laboratory
  - Operational Report
- VI. WSCF Laboratory
  - Operational Report
- VII. Misc. Issues
- VIII. Review of New Action Items

## **Return of Residues from Treatability Studies Performed on Hanford Tank Waste at the Savannah River Site**

- Laboratories at the Savannah River Technology Center (SRTC) have been used since 1997 to conduct Treatability studies on samples of Hanford tank waste in support of the Hanford vitrification plant design.
- During this program, residues resulting from testing Hanford tank samples are generated. The residues are segregated from non-Hanford materials so that only Hanford materials are returned to Hanford.
- Residues from treatability studies performed at SRTC have been returned to Hanford since 1998 under the treatability study exclusion of WAC 173-303-071(3)s
- All returned residues are treatability samples not waste
- Treatability studies at SRTC, and thus residue return will continue through 2006
- All residues are inspected/confirmed at SRTC and compared to acceptance requirements prior to shipment to Hanford
- Aqueous residues that are compliant with 219-S tank system requirements and require shipment in a type A package called a hedgehog (generally hot cell liquids) will be received at the laboratory and poured to the 219-S tank system
- After receipt at the 222-S laboratory hot cells, residues are declared waste and managed as analytical waste per the Waste Analysis Plan for 222-S Laboratory Complex
- All waste from the 219-S tank system are returned to the Hanford tank system where the samples originated, pending eventual retrieval and disposal.

### Comparison of Residue Paths with and without Treatment Contractor

Residue Form	Path with Treatment Contractor		Path without Treatment Contractor	
	Hanford Receipt Location	Disposition	Hanford Receipt Location	Disposition
<b>Hot Cell Aqueous Liquid</b> 10-30 liters/shipment*	T plant	Treat at contractor Dispose at Hanford	222-S Laboratory hot cells	Store in 219-S tanks Transfer to DST
<b>Analytical Aqueous Liquid</b> 2-3 drums/shipment*	T plant	Treat at contractor Dispose at Hanford	T plant	Store in Central Waste Complex
<b>Organic Liquid</b> 1 drum/shipment*	T plant	Treat at contractor Dispose at Hanford	T plant	Store in Central Waste Complex
<b>Solids (debris)</b> 2-3 drums/shipment*	T plant	Treat at contractor Dispose at Hanford	T plant	Store in Central Waste Complex
<b>Glass</b> 1 drum/year	T plant	Dispose at Hanford	T plant	Dispose at Hanford

\*Shipments occur four to five time per year.



222-S Project Managers Meeting & Misc. Lab Issues (TSD: TS-2-1)  
5/23/02

**Attachment 2**  
**222-S Lab Operations Report**  
**WSCF Operations Report**

## MONTHLY OPERATIONS STATUS

### 222-S LABORATORY

E. C. Vogt

May 2002

Supported Room 4K Hoods 1 and 12 waste management issues with Verification Services present. All waste was successfully packaged and verified in preparation for the waste box to be sent to the Burial Grounds and put into a MONOLITH. The box will not be required to go through the real-time radiography (RTR) process.

Participated in the final review and provided signature sign-off for procedure LO-100-151, *Laboratory Waste Generation*. Currently working with Training (Tina Spadoni) to help develop training modules for the upcoming waste generator training.

Shipped ten Low-level Radioactive (LLR) drums from the bullpen to the Low-level Burial Grounds. Shipped seven Radioactive Mixed Waste (RMW) drums from the Dangerous Mixed Waste Storage Area (DMWSA) to the Central Waste Complex (CWC). Shipped two drums of Metal X/Pipe X product and 1 drum of Non-Organic Cleaner to the 1162 building. This was material we no longer needed, but were able to find a customer who can use it. The laboratory did not have to manage the material as a waste.

Hazardous Material Control (HMC) chem techs provided assistance to the Training staff in a "shadowing" effort. Tina Spadoni shadowed a couple of different techs in the field and observed several waste management activities ranging from Room 2D waste receipt, shipment preparations, and Satellite Accumulation Area (SAA) inspections. This activity will continue.

The process of performing the Preliminary Hazards Analysis (PHA) for the new Documented Safety Analysis (DSA) has begun. Pacific Northwest National Laboratories (PNNL) has been contracted to facilitate and compile the new PHA. Three half-day sessions have been conducted and an additional two half-day sessions have been scheduled for the week of May 6, 2002. The plan for this process was developed and accident scenarios are being developed, but the process is slower than originally anticipated.

Issued the first approval letter for transferring non-Tank Farms, aqueous liquid analytical polychlorinated biphenyl (PCB) waste (<49 ppm) to the 219-S Waste Handling Facility. The actual transfer is in progress.

Providing ongoing environmental support for the upcoming receipt of residue returns to the lab from Savannah River Technical Center (SRTC), currently scheduled for June 18, 2002. Personnel will attend a kick-off meeting scheduled for May 6, 2002.

The 222-S Laboratory Complex received a "Recognition of Merit for Environmental Excellence" for its participation in the Fluor Hanford Environmental Stewardship Award nomination process. The award is located in the 222-S Laboratory lobby showcase. This year's winner was the River Corridor Project. The 222-S environmental group plans to win this award next year.

## UNIT MANAGER'S MONTHLY MEETING WSCF REPORT

### ANALYTICAL

#### **Installation of IRIS ICP/AES in WSCF:**

The IRIS is the ICP/AES previously used at the weather station is being returned to service at WSCF. This instrument will provide a backup to the ICP in room N12 and is expected to expand our ICP capability by achieving lower detection limits and a broader array of elements.

##### *Current Status:*

- The instrument has been setup in room N16
- The vendor is scheduled to be here the week May 20, to complete the instrument set up and initial testing.
- The laboratory is developing an installation schedule and a method development plan.

##### *Future Activities:*

- Complete acceptance testing
- Development of analytical methods
- Staff training
- 

#### **Installation of HP ICP/MS in WSCF:**

Procure and install new equipment, and develop methodologies to extend the capability and capacity of Inductively Coupled Plasma – Mass Spectrographic analysis at the WSCF Laboratory.

##### *Current Status:*

- It will be shipped to WSCF on 5/22.
- The laboratory is developing an installation schedule and a method development plan.

##### *Future Activities:*

- Complete acceptance testing
- Development of analytical methods
- Staff training

#### **Installation of DX 600 Ion Chromatographs at WSCF:**

Procure and install two new instruments, and develop methods for to restore capability and capacity of ion chromatographic analysis at WSCF. One instrument is being installed for anion analysis and the other instrument is being installed for cation analysis.

##### *Current Status:*

- The Cation instrument is installed and operational.

#### **Oil & Grease Analysis using EPA Method 1664 {}**

Sample extraction with Freon solvent for oil & grease analysis is due to be phased out. A Horizon, model 4790 solid phase extraction system using method 1664 has been installed at WSCF as a replacement. Initial testing has shown good recovery. A procedure has been drafted and MDLs determined. Implementation of the new method is hampered by conflicting priorities on the principal scientist. Current requests for this analysis are met by using up old stock of Freon solvent, but laboratory clients have requested a transition to the new method. Performance test samples need to be analyzed and a readiness audit conducted.

##### *Current Status:*

- MDLs and initial precision and recovery have been determined for oil & grease using method 1664. The results are within the acceptable range for this method.
- The draft analytical procedure is undergoing validation.
- The result of the PE sample analysis was received; it was within the acceptable range.

##### *Future Activities:*

# CORRESPONDENCE DISTRIBUTION COVERSHEET

Author  
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373-2821

Addressee  
Distribution

Correspondence No.  
FH-0203857  
August 21, 2002

Subject: 222-S PROJECT MANAGERS' MEETING AND MISCELLANEOUS LAB ISSUES  
(TSD: TS-2-1), MAY 2002.

## DISTRIBUTION

Approval	Date	Name	Location	w/att
		Correspondence Control	A3-01	X
		<b><u>Fluor Hanford, Inc.</u></b>		
		<b><u>Administrative Record</u></b>	H6-08	X
		L. E. Borneman	T6-14	X
		B. J. Dixon	R3-32	X
		D. M. Wolf	T6-03	X
		D. B. Hardy	T6-12	X
		J. E. Hyatt	N1-24	X
		J. L. Nuzum	S3-28	X
		C. M. Seidel	T6-14	X
		E. C. Vogt	T6-14	X
		G. J. Warwick	S3-30	X
		J. L. Westcott	T4-05	X
		222-S Regulatory File	T6-14	X
		WSCF Regulatory File	S3-30	X
		LEB File/LB		
		<b><u>Office of River Protection</u></b>	H6-60	X
		W. Liou	H6-60	X
		H. J. Stafford		
		<b><u>U.S. Department of Energy</u></b>		
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		G. Ellis-Balone	A2-15	X
		O. M. Holgado	A2-15	X
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		J. Zeisloft	A2-15	X
		<b><u>Washington State Department of Ecology</u></b>		
		T. Z. Gao	B5-18	X
		F. Jamison	B5-18	X
		D. G. Singleton	B5-18	X
		J. W. Yokel	B5-18	X